little importance to merit any particular consideration, or at the least, that they are not new,-maintaining that wherever pith occurs, it occurs as an adjunct of stem and not of root. But with all due deference to great names and to great men, I contend most zealously for the fact of the existence of a pith in the root of exogenous seedlings at least. The affirmation of it is good, at any rate, as far as my induction goes; and no one is at liberty to deny it, unless he can show that he has examined roots of the same species and of the same age, without having been able to discover the same appearances. Nor is any one at liberty to say that the pith which is found in the root is of no importance because it occurs merely in seedlings and disappears in the mature plant. As well might the zoologist deny the importance of the tail of the tadpole, because it disappears in the full-grown frog. And if it is said that my facts are not new, I can only answer for myself, by saying in reply, that I never either heard or read of such facts till I discovered them in the course of my own investigations. They may be old facts; but if facts at all, whether old or new, why are they contradicted by modern botanists?

I contend also with equal zeal for the fact of the gradual diminution of the pith of the stem till it dwindles away at last to a mere thread in the mature trunk; and as I am persuaded that the facts which I have adduced in support of the doctrine are new, so I am satisfied that they are also true. Yet truth does not always meet with the ready reception which it merits—not even from philosophers themselves; especially when any new fact occurs that happens to militate against their recorded opinions.

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When in 1834 I first exhibited at the meetings of the Zoological Society dissected specimens of males and females of three species of the genus Syngnathus, in order to show the peculiarities both of the marsupial and ophidial pipe-fish, I had no difficulty in finding among my specimens females of S. Ophidion of Bloch, and I insert here a paragraph from the Report of the Proceedings of the Zoological Society for Oct. 28, 1834, which follows a notice of the exhibition of preparations of males and females of Syngnathus Acus and Typhle. "Specimens of males and females of S. Ophidion, Bloch, were also exhibited. In this species neither male nor female possesses an anal pouch, but the ova are carried by the male in hemispheric depressions on the external surface of the abdomen, anterior to the anus. All the specimens examined having these external depressions proved to be males, with the testes in the abdomen very obvious : those without external depressions proved to be all females, internally provided with two lobes of enlarged ova."

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As short descriptions, without figures, have often led to an erroneous adoption of names, I send herewith a representation engraved on wood of the true *S. Ophidion* of Artedi and Linnæus. I have found it occasionally on the southern coast of England, but it is not very common. It is described by M. Fries in the 8th Number of the 'Annals,' page 103. and by Mr. Jenyns in his 'Manual of British Vertebrate Animals,' page 488.



The straight-nosed Pipe-fish. Nat. size.

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Ryder Street, Feb. 18, 1839.

X.—Descriptions of some new or rare Indian Plants. By G. A. W. ARNOTT, Esq., LL.D.

[Continued from p. 23.]

BALSAMODENDRON, Kunth (Burseraceæ).

In the 'Prodromus Floræ Peninsulæ Indiæ Orientalis', i. p. 176, Dr. Wight and I united this as a subgenus to *Protium*, and it still appears to me doubtful if the two be separated by sufficiently important characters: the habit is, however, very different. In consequence of the addition of several new species, the character given by Dr. Wight and me, will require to be slightly altered, as follows:

Calyx late vel tubuloso-campanulatus : torus disciformis in fundo calycis ovarium cingens, externe inter singula stamina verrucula elevata instructus : stamina octo : drupa ovata : nux obtusa angulata.

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In the recent works on British Fishes, one by Mr. Jenyns the other by myself, we had considered the figure of Bloch's *Ophidion* as representing the true *Ophidion* of Linnæus, which as here admitted is not the case: Mr. Jenyns has described the true *Ophidion* under the name of *lumbriciformis*, and I inserted the true *lumbriciformis* but omitted the true *Ophidion* altogether. I acknowledge with pleasure my obligations to M. Fries for setting me right.

Ryder Street, Feb. 18, 1839.

X.—Descriptions of some new or rare Indian Plants. By G. A. W. ARNOTT, Esq., LL.D.

[Continued from p. 23.]

BALSAMODENDRON, Kunth (Burseraceæ).

In the 'Prodromus Floræ Peninsulæ Indiæ Orientalis', i. p. 176, Dr. Wight and I united this as a subgenus to *Protium*, and it still appears to me doubtful if the two be separated by sufficiently important characters: the habit is, however, very different. In consequence of the addition of several new species, the character given by Dr. Wight and me, will require to be slightly altered, as follows:

Calyx late vel tubuloso-campanulatus : torus disciformis in fundo calycis ovarium cingens, externe inter singula stamina verrucula elevata instructus : stamina octo : drupa ovata : nux obtusa angulata.